PW SKILLS

0 1 2 3 4

array = [2, 4, 6, 8, 10] n = 5

n-1 → 0 1 2 3 4

Reversal of an array – [10, 8, 6, 4, 2]

for (i = n-1; i >= 0; i--) {

new_array = [10, 8, 6, 4, 2]

Print

}

Brute force approach

Space complexity = O(n)

Time complexity = O(n)

Optimized approach

0 1 2 3 4

array = (~~2~~, ~~4~~, 6, ~~8~~, ~~10~~)

10 8 4 2

n = 5

output = (10, 8, 6, 4, 2)

for (i = 0; i < n/2; i++) {

swap(arr(i), arr(n-i-1))

}

Time complexity

O(n)

Space complexity = O(1)

Swap of two elements in an array

```
temp = arr(i)          (2)
arr(i) = arr(n-i-1)    (10)
arr(n-i-1) = temp
```

2, 4, 6, 8, 10
0 1 2 3 4
8

i = 0

arr(i) = 2

arr(n-i-1) = 10